



# EAST Search History

|    |     |                                                                    |                                                                            |    |    |                  |
|----|-----|--------------------------------------------------------------------|----------------------------------------------------------------------------|----|----|------------------|
| L8 | 110 | 7 and (sens\$4 detect\$4 measur\$4 cell<br>gage gauge transducer ) | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/01/10 13:42 |
| L9 | 57  | 8 and (calculator ecu cpu processor<br>computer microprocessor )   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/01/10 13:43 |

## EAST Search History

| Ref # | Hits   | Search Query                       | DBs                                                                        | Default Operator | Plurals | Time Stamp       |
|-------|--------|------------------------------------|----------------------------------------------------------------------------|------------------|---------|------------------|
| L1    | 27     | "5952587" "20020057856"            | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2008/01/10 12:46 |
| L2    | 1      | 1 and (neural ) near3 (network )   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2008/01/10 12:08 |
| L3    | 166814 | (roller rolling ) near3 (bearing ) | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2008/01/10 12:11 |
| L4    | 102    | 3 and (neural ) near3 (network )   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2008/01/10 12:21 |
| L5    | 38     | 4 and (fourier)                    | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2008/01/10 12:11 |
| L6    | 16     | 5 and (vector )                    | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2008/01/10 12:11 |
| L7    | 164731 | (ball ) near3 (bearing )           | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2008/01/10 12:28 |

## EAST Search History

|     |    |                                                                                                      |                                                                            |    |    |                  |
|-----|----|------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|----|----|------------------|
| L8  | 98 | 7 and (neural ) near3 (network )                                                                     | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/01/10 12:11 |
| L9  | 29 | 8 and (fourier)                                                                                      | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/01/10 12:30 |
| L10 | 18 | 9 and (vector )                                                                                      | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/01/10 12:21 |
| L11 | 35 | "5140849"                                                                                            | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/01/10 12:21 |
| L12 | 2  | 11 and (neural ) near3 (network )                                                                    | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/01/10 12:43 |
| L13 | 4  | "6647798" "20020194927"                                                                              | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/01/10 12:24 |
| L14 | 40 | "7,249,891" "7,240,570" RE39,838 "6,<br>535,135" "6,687,623" "6,916,118" "6,<br>571,632" "5,566,273" | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/01/10 12:25 |

## EAST Search History

|     |    |                                                |                                                                            |    |    |                  |
|-----|----|------------------------------------------------|----------------------------------------------------------------------------|----|----|------------------|
| L15 | 19 | 14 and (roller rolling ball ) near3 (bearing ) | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/01/10 12:43 |
| L16 | 0  | 15 and (fourier)                               | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/01/10 12:41 |
| L17 | 4  | 15 and (amplitude )                            | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/01/10 12:41 |
| L18 | 1  | 17 and (phase)                                 | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/01/10 12:42 |
| L19 | 0  | 18 and (radial\$4)                             | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/01/10 12:42 |
| L20 | 1  | 15 and (neural ) near3 (network )              | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/01/10 12:43 |
| L21 | 1  | 15 and (vector )                               | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/01/10 12:43 |

## EAST Search History

|     |     |                                                   |                                                                            |    |    |                  |
|-----|-----|---------------------------------------------------|----------------------------------------------------------------------------|----|----|------------------|
| L22 | 158 | 73/862.322.ccls.                                  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/01/10 12:46 |
| L23 | 63  | 22 and (radial\$4)                                | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/01/10 12:46 |
| L24 | 27  | 23 and (rolling roller ball ) near3<br>(bearing ) | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/01/10 12:47 |
| L25 | 7   | 24 and (amplitude )                               | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/01/10 12:48 |
| L26 | 0   | 25 and (phase )                                   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/01/10 12:48 |
| L27 | 6   | 25 and (fourier )                                 | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/01/10 12:48 |

## EAST Search History

| Ref # | Hits   | Search Query                                               | DBs                                                                        | Default Operator | Plurals | Time Stamp       |
|-------|--------|------------------------------------------------------------|----------------------------------------------------------------------------|------------------|---------|------------------|
| L1    | 292737 | (ball rolling roller ) near3 (bearing )                    | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2008/01/10 14:24 |
| L2    | 161040 | 1 and (ring race cone )                                    | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2008/01/10 13:35 |
| L3    | 1271   | 2 and (force load pressure strain stress ) near3 (vector ) | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2008/01/10 13:37 |
| L4    | 970    | 3 and (mode shape )                                        | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2008/01/10 13:39 |
| L5    | 954    | 3 and (radial\$4)                                          | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2008/01/10 13:39 |
| L6    | 757    | 5 and (axial\$4)                                           | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2008/01/10 13:40 |
| L7    | 150    | 6 and (neural train\$4 learn\$4 )                          | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2008/01/10 14:24 |

## EAST Search History

|    |     |                                                                    |                                                                            |    |    |                  |
|----|-----|--------------------------------------------------------------------|----------------------------------------------------------------------------|----|----|------------------|
| L8 | 110 | 7 and (sens\$4 detect\$4 measur\$4 cell<br>gage gauge transducer ) | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/01/10 14:24 |
| L9 | 57  | 8 and (calculator ecu cpu processor<br>computer microprocessor )   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/01/10 13:43 |



## EAST Search History

|         |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                            |    |    |                  |
|---------|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|----|----|------------------|
| L10     | 443        | ("20070143039" "5952587"<br>"20070074587" "6490935" "6948284"<br>"20020124407" "20040221520"<br>"20060042406" "20060070462"<br>"20060259225" "20070014498"<br>"20070058892" "4289005" "5372435"<br>"6494046" "20050031239"<br>"20050089253" "6199018"<br>"20070201995" "5223904" "3672019"<br>"3708215" "3785023" "3830633"<br>"3858271" "3990753" "4078819"<br>"4175430" "4185720" "4200326"<br>"4248317" "4325591" "4528852"<br>"4557613" "4573811" "4576420"<br>"4898480" "5061088" "5102235"<br>"5286117" "5333510" "5385406"<br>"5433527" "5435252" "5575565"<br>"5593234" "5645216" "5672011"<br>"5695288" "5829882" "5837882"<br>"5977677" "5993069" "6200031"<br>"6227710" "6318895" "6354740"<br>"6360865" "6432888" "6526829"<br>"6619844" "6687623" "6758534"<br>"6796031" "6802647" "6918330"<br>"6948850" "7012198" "7021104"<br>"20020057856" "20030056632"<br>"20030188897" "20030231812"<br>"20040003643" "20040151407"<br>"20040177509" "20050105838"<br>"20050246897" "20060023978"<br>"20060034553" "20060133706"<br>"4993506" "6147619" "20020073786"<br>"20050236725" "20060021446"<br>"20070095138" "20070290180"<br>"5313023" "5690185" "6101450"<br>"6334284" "6763661" "6851529"<br>"6940186" "20030197318"<br>"20030209134" "20050044785"<br>"20070286750" "4641978" "4738336"<br>"5408948" "5731566" "5739607"<br>"5779367" "5927166" "6113276"<br>"6161962" "6400136" "6523383"<br>"6564653" "6619849" "6658943"<br>"6707380" "6882142" "7007792"<br>"7140228" RE39838 "7316168"<br>"20020050178" "20020092360"<br>"20020097040" "20020129633"<br>"20030030565" "20030091253"<br>"20030093188" "20040055756"<br>"20050081646" "20050259900"<br>"20060018772" "20060070460"<br>"5404992" "6751291" "6874585"<br>"7223018" "7299729" "20040187743"<br>"20040211577" "20040222601"<br>"4314281" "6107794" "6297574"<br>"6985406" "7119520" "20050206351" | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/01/10 14:33 |
| 1/10/08 | 2:36:28 PM | "20050239198" "20070241920"<br>"3600780" "3608985" "3613517"<br>"3639018" "3646854" "3685347"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                            |    |    | Page 3           |

## EAST Search History

|     |     |                                                                     |                                                                            |    |    |                  |
|-----|-----|---------------------------------------------------------------------|----------------------------------------------------------------------------|----|----|------------------|
| L11 | 232 | 10 and (ball rolling roller ) near3<br>(bearing )                   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/01/10 14:24 |
| L12 | 123 | 11 and (sens\$4 detect\$4 measur\$4<br>cell gage gauge transducer ) | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/01/10 14:33 |
| L13 | 17  | 12 and (fourier neural train\$4 learn\$4<br>)                       | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/01/10 14:25 |
| L14 | 7   | 13 and (vector )                                                    | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/01/10 14:33 |
| L15 | 13  | 12 and (amplitude )                                                 | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/01/10 14:32 |
| L16 | 8   | 15 and (phase )                                                     | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/01/10 14:32 |
| L17 | 17  | 12 and (vector )                                                    | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/01/10 14:33 |